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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/671,117	09/28/2000	Hideo Miyake	1614.1082	8617

21171 7590 08/12/2003

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[REDACTED] EXAMINER

KIM, HONG CHONG

[REDACTED] ART UNIT [REDACTED] PAPER NUMBER

2186

DATE MAILED: 08/12/2003

13

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/671,117	MIYAKE ET AL.	
	<b>Examiner</b> Hong C Kim	<b>Art Unit</b> 2186	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute; cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 29 May 2003.

2a) This action is FINAL.                    2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 13, 15, 17 and 20-22 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) 15, 17 and 20 is/are allowed.

6) Claim(s) 13, 21 and 22 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>12</u> .	6) <input type="checkbox"/> Other: _____

### Detailed Action

1. Claims 1-13, 15, 17-20 are presented for examination. Claims 21-22 have been added and claims 1-12, 18, and 19 have been canceled. This office action is in response to the amendment filed on 5/29/03.
2. Receipt is acknowledged of information disclosure statement filed on 5/29/03, which the statement has been placed of record in the file. Information disclosed and listed on PTO 1449 was considered.
- 3.
4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -  
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 13, 21 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Biggs et al. (Biggs) US Patent 5,410,669.

As to claims 13 and 22, Biggs discloses the invention as claimed. Biggs discloses a method of controlling a cache memory is connected to a main memory with a first address space and capable of acting as a random access memory, which is executed by a computer that accesses that main memory through that cache memory (Fig. 3 and col. 4 line 46 thru col 5 line 25) comprising the steps of: determining whether that cache memory is acting as the random access

memory col. 4 lines 54+) and assigning a second address space (abstract lines 9-10) which separate from the first address space of the main memory for the cache memory when the cache memory is acting as the random access memory (col. 4 line 46 thru col 5 line 25) and a bus control unit (Fig. 1 Ref. 20) .

As to claim 21, Biggs discloses the invention as claimed above. Biggs a computer including a main memory and a cache memory (Fig. 1 Ref. 14), the main memory having a first address space (Fig. 1 Ref. 30) and the cache memory being capable of acting as a RAM (abstract) comprising: a determination unit (col. 4 line 46 thru col 5 line 25), an assignment unit (col. 4 line 46 thru col 5 line 25), a bus control unit (Fig. 1 Ref. 20), a peripheral system (Fig. 1 Ref. 22), and access control unit (abstract).

*Allowable Subject Matter*

6. Claims 15, 17 and 20 are allowed.

*Response to Amendment*

7. Applicant's arguments filed on 6/2/03 have been fully considered but they are not deemed to be persuasive.

Applicant's remarks that the references not teaching assigning first address space -- a second address space which is separate from the first address space of the main memory is not

considered persuasive. Biggs discloses a method of controlling a cache memory is connected to a main memory with a first address space and capable of acting as a random access memory, which is executed by a computer that accesses that main memory through that cache memory (Fig. 3 and col. 4 line 46 thru col 5 line 25) comprising the steps of: determining whether that cache memory is acting as the random access memory col. 4 lines 54+) and assigning a second address space (abstract lines 9-10) which separate from the first address space of the main memory for the cache memory when the cache memory is acting as the random access memory (col. 4 line 46 thru col 5 line 25) and a bus control unit (Fig. 1 Ref. 20) Therefore broadly written claims are disclosed by the references cited.

### *Conclusion*

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892.
9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

10. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. § 1.111(c).

11. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hong Kim whose telephone number is (703) 305-3835. The Examiner can normally be reached on the weekdays from 8:30 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Matt Kim, can be reached on (703) 305-3821.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

13. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to TC-2100:**

After-Final (703) 746-7238  
Official (703) 746-7239 (for formal communications intended for  
entry)

Non-Official/Draft (703) 746-7240 (for informal or draft communications, please  
label "PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal  
Drive, Arlington, VA., Sixth Floor (Receptionist).

HK   
Primary Patent Examiner  
August 9, 2003